

Bellwork: 9/13/12

Solve the following equation for the given variable:

$$(3) V = \cancel{\frac{1}{3}} \pi r^2 h \quad \text{for } h$$

$$\frac{3V}{\pi r^2} = \frac{\cancel{\pi} r^2 h}{\cancel{\pi r^2}}$$

$$\boxed{\frac{3V}{\pi r^2} = h}$$

5.) Solve $T = T_0 - a(z - z_0)$ for a

$$\frac{-T_0 - T_0}{T - T_0} = -a \frac{(z - z_0)}{(z - z_0)}$$

$$\frac{T - T_0}{(z - z_0)} = \frac{-a}{-1}$$

$$-\left(\frac{T - T_0}{(z - z_0)}\right) = a$$

6.) Solve $F = G \frac{mM}{r^2}$ for m

$$(r^2)F = G \frac{mM}{\cancel{r^2}} (\cancel{r^2})$$

$$\frac{Fr^2}{GM} = \frac{GM}{GM}$$

$$\boxed{\frac{Fr^2}{GM} = m}$$

7.) Solve $S = L - RL$ for L

$$S = L - RL$$

$$S = \frac{L(1-R)}{(1-R)}$$

$$\boxed{\frac{S}{1-R} = L}$$

8.) Solve $d = \frac{ax - bx}{c}$ for x

$$(c) d = \frac{ax - bx}{c} \cdot c$$

$$cd = ax - bx$$

$$\frac{cd}{(a-b)} = \frac{x(a-b)}{(a-b)}$$

$$\boxed{\frac{cd}{a-b} = x}$$

$$\textcircled{20} \quad a = \cancel{b} + \frac{1}{c}$$

$$a - b = \frac{1}{c}$$

Homework:

Practice 1.6 - Solving Literals - all

Quiz Topics:

- 1) Operations with Fractions
- 2) PEMDAS
- 3) Simplifying Exponents
- 4) Solving Equations
- 5) Solving Literal Equations
- 6) Sometimes, Always, Never
- 6) WORD PROBLEMS!